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FILE 'GBFULL' ENTERED AT 14:26:47 ON 16 JUN 2008 COPYRIGHT (C) 2008 Univentio

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FILE 'PCTFULL' ENTERED AT 14:26:47 ON 16 JUN 2008 COPYRIGHT (C) 2008 Univentio

FILE 'RDISCLOSURE' ENTERED AT 14:26:47 ON 16 JUN 2008 COPYRIGHT (C) 2008 Kenneth Mason Publications Ltd.

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CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE 'USPAT2' ENTERED AT 14:26:47 ON 16 JUN 2008
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=> s polymer# and optical device#

4 FILES SEARCHED...
L1 21324 POLYMER# AND OPTICAL DEVICE#

LI ZISZ4 POLIMER# AND OPIICAL DEVICE

=> s 11 and (co-monomer# or comonomer#)
L2 1175 L1 AND (CO-MONOMER# OR COMONOMER#)

=> s 12 and electroluminescent device#

3 FILES SEARCHED... 5 FILES SEARCHED...

13 120 L2 AND ELECTROLUMINESCENT DEVICE#

=> s 13 and pyrimidine#

L4 36 L3 AND PYRIMIDINE#

=> s 14 and fluorene#

L5 34 L4 AND FLUORENE#

=> s 15 and positive charge carrier# and negative charge carrier#
L6 5 L5 AND POSITIVE CHARGE CARRIER# AND NEGATIVE CHARGE CARRIER#

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      Semiconductive Polymers.
TIFR
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TIDE
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      The designation of the inventor has not yet been filed
PA
       Covion Organic Semiconductors GmbH, (Organic Semiconductors GmbH,
       Covion; Semiconductors GmbH, Covion Organic), , 65926 Frankfurt, DE
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      3202880
       Luderschmidt, Schueler & Partner GbR, Patentanwaelte Industriepark
AG
       Hoechst, Gebaeude F 821, 65926 Frankfurt, DE
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      WALLACE, Paul, 11 Redwing Rise, Royston, Hertfordshire SG8 7XU, GB [GB,
       POUNDS, Thomas, 97 Arbury Road, Cambridge CB4 2JD, GB [GB, GB];
       O'DELL, Richard, Jettenstetten 23, 84416 Taufkirchen, DE [GB, DE];
       TOWNS, Carl, Crown Cottage, 192 Silver Street, Mountfitchet, Stansted,
       Essex CM24 8HB, GB [GB, GB];
      McKIERNAN, Mary, 12 Lee Close, Cottenham, GB [GB, GB]
PA
       COVION ORGANIC SEMICONDUCTORS GMBH, 65926 Frankfurt am Main, DE [DE,
       DE], for all designates States except US;
       WALLACE, Paul, 11 Redwing Rise, Royston, Hertfordshire SG8 7XU, GB [GB,
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       2004039864 PCTFULL ED 20040518 EW 200420
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TIFR
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      CRAIG, Michael, Robert, Horburgstrasse 2, CH-4057 Basel, GB [CH, CH];
       ROGERS, Jonathan, St. Alban-Anlage 63, CH-4052 Basel, CH [US, CH];
       SCHAefer, Thomas, Pruntruterstrasse 5, CH-4053 Basel, CH [DE, CH]
       CIBA SPECIALTY CHEMICALS HOLDING INC., Klybeckstrasse 141, CH-4057
       Basel, CH [CH, CH], for all designates States except US;
       CRAIG, Michael, Robert, Horburgstrasse 2, CH-4057 Basel, GB [CH, CH],
       for US only;
       ROGERS, Jonathan, St. Alban-Anlage 63, CH-4052 Basel, CH [US, CH], for
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     ANSWER 4 OF 5 USPATFULL on STN
       2006:175566 USPATFULL
       Polvmer
      O'Dell, Richard, Taufkirchen, GERMANY, FEDERAL REPUBLIC OF
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Pounds, Thomas, Cambridge, UNITED KINGDOM
       Wallace, Paul, Hertfordshire, UNITED KINGDOM
       Towns, Carl, Essex, UNITED KINGDOM
       McKiernan, Mary, Cambridgeshire, UNITED KINGDOM
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       US 20060149016
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              C07F0005-00 [I,C*]; C07F0005-02 [I,A]; C08G0061-00 [I,C*];
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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AN
       2006:28730 USPATFULL
ΤI
       Novel polymers for use in optical devices
IN
       Craig, Michael Robert, 250 East 39th Street Apt. 14K, New York, NY,
       UNITED STATES 10016
       Rogers, Jonathan, White Plains, NY, UNITED STATES
       Schafer, Thomas, Basel, SWITZERLAND
       US 20060025564
                          A1 20060202
AΤ
       US 2003-531779
                           A1 20031021 (10)
       WO 2003-EP11634
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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       2007:26409
                    EPFULL EDP 20071107 ED 20071107 UP 20071107
       DUPD 20071107 DUPW 200745
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TIEN
       Mono-, oligo- and poly-bis(thienyl)arylenes and their use as charge
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      Mono-, oligo-, et poly-bis(thienyl)arylenes et leurs utilisations en
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       tant que materiaux de transport de charges.
       Mono-, Oligo- und Poly-bis(thienyl)arylene und ihre Verwendung als
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IN
       Heeney, Martin, 59 Cedar Road, Southampton SO14 6TO, GB;
       Giles, Mark, 86 Riverdene PlaceBitterne Park, Southamptom SO18 1UH, GB;
       Tierney, Steven, 8 Compton HouseCarlisle Road, Southampton SO16 4BS, GB;
       McCulloch, Iain, 2 Goodacre DriveChandlers Ford, Southampton SO53 4LG,
       GB;
       Bailey, Clare, 8 Trent RoadMidanbury, SouthamptonHampshire S018 4PP, GB
PA
      Merck Patent GmbH, Frankfurter Strasse 250, 64293 Darmstadt, DE
PAN
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       2004:90739
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      Poly(benzodithiophenes).
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       Heeney, Martin, 59 Cedar Road, Southampton SO14 6TQ, GB;
       Bailey, Clare, 8 Trent Road, MidanburySouthamptonHampshire SO18 4PP, GB;
       Tierney, Steven, 33 Bellemoor Road, Southampton SO15 7QW, GB;
       Zhang, Weimin, 403 Winchester Road, Southampton SO16 7DE, GB;
       McCulloch, Iain, Dr., 2 Goodacre DriveChandlers Ford, Southampton S053
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PA
      Merck Patent GmbH, Frankfurter Strasse 250, 64293 Darmstadt, DE
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       Semiconductive Polymers.
TIFR
       Polymeres semi-conducteurs.
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PA
       Covion Organic Semiconductors GmbH, (Organic Semiconductors GmbH,
      Covion: Semiconductors GmbH, Covion Organic), , 65926 Frankfurt, DE
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      Mono-, oligo- and poly-bis(thienyl) arylenes and their use as charge
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TIFR
      Mono-, oligo- et poly(bisthienyl arylenes) et leur utilisation comme
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TIDE
      Mono-, oligo- und poly(bisthienylarylene) und ihre Verwendung als
      Materialien fuer den Ladungstransport.
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       Heeney, Martin, 59 Cedar Road, Southampton SO14 6TQ, GB;
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       McCulloch, Iain, 2 Goodacre Road, Southampton SO53 4LG, GB;
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      Mono-, oligo- and poly-bis(thienyl) arylenes and their use as charge
       transport materials.
TIFR
      Mono-, oligo- et poly(bisthienyl arylenes) et leur utilisation comme
      materiaux de transport de charge.
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      Mono-, oligo- und poly(bisthienvlarvlene) und ihre Verwendung als
      Materialien fuer den Ladungstransport.
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TIFR
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TIDE
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       Farrand, Louise, Dr., 3 Gallop Cottages, Blandford Forum, DT11 9ED, GB;
       Heeney, Martin, 59 Cedar Road, Southampton SO14 6TQ, GB;
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       Giles, Mark, Flat 17, Locksley Court, 24-26 Archers Road, Southampton
       SO15 2LE, GB:
       Thompson, Marcus, 6 Riverside Place, Fordingbridge, Hamshire SP6 1RR,
       Shkunov, Maxim, 6 Ivy Lodge, 48 Seagarth Lane, Southampton SO16 6SX, GB;
       Sparrowe, David, 21a Castlemain Avenue, Southbourne, Bournemouth, Dorset
       BH5 5EJ, GB;
      McCulloch, Iain, Brookvle Muss Lane, Kings Somborne, Hants SO20 6PE, GB
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       Heeney, Martin, 59 Cedar Road, Southampton SO14 6TQ, GB;
       Tierny, Steven, 35 Bellemoor Road, Southampton SO15 7QW, GB;
       Giles, Mark, Flat 17, Locksley Court, 24-26 Archers Road, Southampton
       SO15 2LE, GB;
       Thompson, Marcus, 6 Riverside Place, Fordingbridge, Hamshire SP6 1RR,
       GB;
       Shkunov, Maxim, 6 Ivy Lodge, 48 Seagarth Lane, Southampton SO16 6SX, GB;
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Sparrowe, David, 21a Castlemain Avenue, Southbourne, Bournemouth, Dorset

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TSUDA, Yoshihiro;
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MARROCCO, Matthew, L., III;
LIANG, Yongchao;
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MOTAMEDI, Farshad, J.;
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MIYOSHI, Hidekazu et al., Toranomon Kotohira Tower, 2-8, Toranomon
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       WALLACE, Paul, 11 Redwing Rise, Royston, Hertfordshire SG8 7XU, GB [GB,
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      McKIERNAN, Mary, 12 Lee Close, Cottenham, GB [GB, GB]
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       COVION ORGANIC SEMICONDUCTORS GMBH, 65926 Frankfurt am Main, DE [DE,
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       WALLACE, Paul, 11 Redwing Rise, Royston, Hertfordshire SG8 7XU, GB [GB,
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Essex CM24 BHB, GB [GB, GB], for US only; McKIERNAN, Mary, 12 Lee Close, Cottenham, GB [GB, GB], for US only AG DOERR, Klaus, Industriepark Hoechst, Gebaeude F821, 65926 Frankfurt am

O'DELL, Richard, Jettenstetten 23, 84416 Taufkirchen, DE [GB, DE], for

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       LI, Yingbo, Post Office Box 33427, Saint Paul, MN 55133-3427, US
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       3M INNOVATIVE PROPERTIES COMPANY, 3M Center, Post Office Box 33427,
       Saint Paul, MN 55133-3427, US [US, US]
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       FRIEND, Richard, c/o Cambridge Display Technology Limited, Greenwich
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       OTX, GB [GB, GB];
       FODEN, Clare, c/o Cambridge Display Technology Limited, Greenwich House,
       Madingley Rise, Madingley Road, Cambridge, Cambridgeshire CB3 OTX, GB
       IGB, GB1
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       CAMBRIDGE DISPLAY TECHNOLOGY LIMITED, c/o IP Department, Greenwich
       House, Madingley Rise, Madingley Road, Cambridge, Cambridgeshire CB3
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       ROGERS, Jonathan, St. Alban-Anlage 63, CH-4052 Basel, CH [US, CH];
       SCHAeFER, Thomas, Pruntruterstrasse 5, CH-4053 Basel, CH [DE, CH]
       CIBA SPECIALTY CHEMICALS HOLDING INC., Klybeckstrasse 141, CH-4057
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       LI, Yingbo, Post Office Box 33427, Saint Paul, MN 55133-3427, US;
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                     CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
                     IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
                     MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM
                     TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
                     AT CZ DE DK EE FI SK
       W-U:
       RW (ARIPO):
                     GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
       RW (EAPO):
                     AM AZ BY KG KZ MD RU TJ TM
                     AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC
       RW (EPO):
                     NL PT SE SI SK TR
       RW (OAPI):
                     BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
PRAT
       US 2002-60/374,044
                               20020419
       US 2002-10/285,114
                               20021031
AΤ
       WO 2003-US6447
                           A 20030303
TCM
      C09K011-06
TCS
      H01L051-30; C08L065-00; C08G061-00
```

AN

2006:267894 USPATFULL

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ANSWER 15 OF 34 USPATFULL on STN
       2007:282160 USPATFULL
AN
       Polymerisable ThienO[3,2-B]Thiophenes
       Heeney, Martin, Southampton, UNITED KINGDOM
       McCulloch, Iain, Southampton, UNITED KINGDOM
ΡI
       US 20070246704
                          A1 20071025
ΑI
       US 2005-570306
                           A1 20050513 (11)
      WO 2005-EP5292
                               20050513
                               20061208 PCT 371 date
PRAI
      EP 2004-13598
                           20040609
DT
      Utility
FS
      APPLICATION
LN.CNT 1520
TNCI.
       INCLM: 257/040.000
       INCLS: 528/030.000; 549/050.000; 549/058.000
NCL
       NCLM: 257/040.000
      NCLS: 528/030.000; 549/050.000; 549/058.000
       IPCI
             C07D0495-04 [I,A]; C07D0495-00 [I,C*]; C09K0019-34 [I,A];
IC
              C09K0019-38 [I,A]; G03G0005-06 [I,A]; H01B0001-12 [I,A];
             H01L0051-30 [I.A]; H01L0051-05 [I.C*]; H05B0033-00 [I.A]
       IPCR
             C07D0495-00 [I.Cl; C07D0495-04 [I.Al; C09K0019-34 [I.Cl;
             C09K0019-34 [I,A]; C09K0019-38 [I,C]; C09K0019-38 [I,A];
              C09K0019-40 [I,C*]; C09K0019-40 [I,A]; G03G0005-06 [I,C];
              G03G0005-06 [I,A]; H01B0001-12 [I,C]; H01B0001-12 [I,A];
              H01L0051-00 [I,C*]; H01L0051-00 [I,A]; H01L0051-05 [I,C];
             H01L0051-30 [I,A]; H05B0033-00 [I,C]; H05B0033-00 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 16 OF 34 USPATFULL on STN
L5
ΑN
       2007:271757 USPATFULL
ΤI
       ELECTROLUMINESCENT MATERIALS AND METHODS OF MANUFACTURE AND USE
       Li, Yingbo, Woodbury, MN, UNITED STATES
TN
       Baetzold, John P., North St. Paul, MN, UNITED STATES
       Spawn, Terence D., West Lakeland Township, MN. UNITED STATES
       Roberts, Ralph R., Cottage Grove, MN, UNITED STATES
       Bentsen, James G., North St. Paul, MN, UNITED STATES
       Staral, John S., Woodbury, MN, UNITED STATES
PA
       3M Innovative Properties Company (U.S. corporation)
ΡI
      US 20070237983
                          A1 20071011
AΙ
      US 2007-757723
                           A1 20070604 (11)
RLI
       Division of Ser. No. US 2002-285114, filed on 31 Oct 2002, GRANTED, Pat.
      No. US 7241512
PRAT
      US 2002-374044P
                         20020419 (60)
DT
      Utility
FS
      APPLICATION
LN.CNT 1973
INCL
       INCLM: 428/690.000
NCL
      NCLM: 428/690.000
ΙĊ
       IPCI
              B32B0009-00 [I,A]
              B32B0009-00 [I,C]; B32B0009-00 [I,A]; H05B0033-10 [I,C*];
       IPCR
              H05B0033-10 [I,A]; C08G0061-00 [I,C*]; C08G0061-02 [I,A];
              C08G0061-10 [I,A]; C09K0011-06 [I,C*]; C09K0011-06 [I,A];
              H01L0051-00 [N,C*]; H01L0051-00 [N,A]; H01L0051-05 [I,C*];
              H01L0051-30 [I,A]; H01L0051-50 [I,C*]; H01L0051-50 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
1.5
    ANSWER 17 OF 34 USPATFULL on STN
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9-Arvl and bisavl substituted polyfluorenes
       Burroughes, Jeremy, Cambridgeshire, UNITED KINGDOM
TN
       Friend, Richard H, Cambridgeshire, UNITED KINGDOM
       Foden, Clare, Cambridgeshire, UNITED KINGDOM
РΤ
       US 20060228576
                          A1 20061012
ΑI
       US 2003-533989
                          A1 20031104 (10)
       WO 2003-GB4753
                               20031104
                               20060213 PCT 371 date
PRAI
       GB 2002-25869
                           20021106
       Utility
FS
       APPLICATION
LN.CNT 461
INCL.
       INCLM: 428/690.000
       INCLS: 257/040.000; 257/E51.032; 257/E51.036; 313/504.000; 313/506.000;
              428/917.000; 528/394.000; 528/397.000; 528/422.000; 528/423.000
NCL
       NCLM:
             428/690.000
       NCLS: 257/040.000; 257/E51.032; 257/E51.036; 257/E51.051; 313/504.000;
              313/506.000; 428/917.000; 528/394.000; 528/397.000; 528/422.000;
              528/423.000
TC
       IPCI
              H01L0051-54 [I,A]; H01L0051-50 [I,C*]; C08G0061-00 [I,A];
              C09K0011-06 [I,A]; H05B0033-14 [I,A]
       IPCR
              H01L0051-50 [I.Cl: H01L0051-54 [I.Al: C08G0061-00 [I.Cl:
              C08G0061-00 [I,A]; C08G0061-02 [I,A]; C09K0011-06 [I,C];
              C09K0011-06 [I,A]; H01L0051-05 [I,C*]; H01L0051-30 [I,A];
              H01L0051-50 [N,A]; H05B0033-14 [I,C]; H05B0033-14 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 18 OF 34 USPATFULL on STN
AN
       2006:186262 USPATFULL
ΤI
       Reactive mesogenic azulenes
       Farrand, Louise Diane, Spetisbury, UNITED KINGDOM
       Findlater, Michael, Glasgow, UNITED KINGDOM
       Giles, Mark, Southampton, UNITED KINGDOM
       Heeney, Martin, Southampton, UNITED KINGDOM
       Tierney, Steven, Southampton, UNITED KINGDOM
       Thompson, Marcus, Fordingbridge, UNITED KINGDOM
       Shkunov, Maxim, Southampton, UNITED KINGDOM
       Sparrowe, David, Southbourne, UNITED KINGDOM
       McCulloch, Iain, Kings Somborne, UNITED KINGDOM
PΙ
      US 20060157693
                          A1 20060720
AΙ
      US 2006-377567
                          A1 20060317 (11)
RLI
      Division of Ser. No. US 2002-314162, filed on 9 Dec 2002, PENDING
PRAI
      EP 2001-129217
                          20011210
DT
       Utility
FS
      APPLICATION
LN.CNT 1111
       INCLM: 257/040.000
TNCT.
       INCLS: 549/510.000: 549/554.000: 549/059.000
NCL
       NCLM: 257/040.000
       NCLS: 549/059.000; 549/510.000; 549/554.000
       IPCI
              H01L0029-08 [I,A]; H01L0029-02 [I,C*]; C07D0409-02 [I,A];
IC
              C07D0409-00 [I,C*]
              C07D0333-00 [I,C*]; C07D0333-06 [I,A]; H01L0029-02 [I,C];
              H01L0029-08 [I,A]; C07C0069-00 [I,C*]; C07C0069-007 [I,A];
              C07C0069-54 [I,A]; C07D0409-00 [I,C]; C07D0409-02 [I,A];
              C09K0019-32 [I,C*]; C09K0019-32 [I,A]; C09K0019-34 [I,C*];
              C09K0019-34 [I,A]; H01L0029-66 [I,C*]; H01L0029-786 [I,A];
              H01L0051-05 [I,C*]; H01L0051-05 [I,A]; H01L0051-30 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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ANSWER 19 OF 34 USPATFULL on STN
AN
       2006:182702 USPATFULL
TΙ
       ELECTROACTIVE POLYMERS
       Roberts, Ralph R., Cottage Grove, MN, UNITED STATES
ΤN
       Bentsen, James G., North St. Paul, MN, UNITED STATES
       Li, Yingbo, Woodbury, MN, UNITED STATES
       3M Innovative Properties Company (U.S. corporation)
PA
ΡI
      US 20060155106
                          A1 20060713
AΙ
      US 2006-276878
                          A1 20060317 (11)
RLI
       Division of Ser. No. US 2002-254218, filed on 25 Sep 2002, PENDING
DT
      Utility
FS
      APPLICATION
LN.CNT 3989
       INCLM: 528/423.000
TNCI.
       INCLS: 528/377.000; 526/280.000; 257/040.000; 428/917.000
NCL
       NCLM: 528/423.000
      NCLS:
             257/040.000; 257/E51.049; 257/E51.051; 428/917.000; 526/280.000;
              528/377.000
IC
       IPCI
             C08G0061-00 [I.A]
       IPCR
             C08G0061-00 [I,A]; B41M0005-26 [I,C*]; B41M0005-382 [N,A];
             B41M0005-395 [I.A]; C08G0061-00 [I.C]; C08G0061-02 [I.A];
              C08G0061-10 [I,A]; H01L0051-00 [I,C*]; H01L0051-00 [I,A];
              H01L0051-05 [I,C*]; H01L0051-30 [I,A]; H01L0051-40 [N,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 20 OF 34 USPATFULL on STN
AN
       2006:175566 USPATFULL
ΤI
       Polymer
IN
       O'Dell, Richard, Taufkirchen, GERMANY, FEDERAL REPUBLIC OF
       Pounds, Thomas, Cambridge, UNITED KINGDOM
       Wallace, Paul, Hertfordshire, UNITED KINGDOM
       Towns, Carl, Essex, UNITED KINGDOM
      McKiernan, Mary, Cambridgeshire, UNITED KINGDOM
PΙ
      US 20060149016
                          A1 20060706
AΙ
      US 2004-560861
                           A1 20040622 (10)
      WO 2004-EP6721
                               20040622
                               20060307 PCT 371 date
PRAT
      EP 2003-14042
                          20030623
DT
      Utility
FS
      APPLICATION
LN.CNT 638
INCL
       INCLM: 528/008.000
NCL.
      NCLM: 528/008.000
      NCLS: 257/E51.051
      IPCI
             C08G0079-08 [I,A]; C08G0079-00 [I,C*]
IC
       IPCR
             C08G0079-00 [I.Cl; C08G0079-08 [I.Al; C07C0001-00 [I.C*];
             C07C0001-24 [I,A]; C07C0015-00 [I,C*]; C07C0015-20 [I,A];
             C07C0017-00 [I,C*]; C07C0017-12 [I,A]; C07C0017-26 [I,A];
             C07C0017-35 [I,A]; C07C0025-00 [I,C*]; C07C0025-22 [I,A];
             C07F0005-00 [I,C*]; C07F0005-02 [I,A]; C08G0061-00 [I,C*];
              C08G0061-02 [I,A]; C08G0061-10 [I,A]; H01L0051-05 [I,C*];
              H01L0051-30 [I,A]; H01L0051-50 [N,C*]; H01L0051-50 [N,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 21 OF 34 USPATFULL on STN
AN
       2006:98779 USPATFULL
ТΤ
      New luminescent compositions and their uses
TN
      Morishita, Yoshii, Tsukuba-shi, JAPAN
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Nomura, Satoyuki, Tsukuba-shi, JAPAN
       Tsuda, Yoshihiro, Tsukuba-shi, JAPAN
       Tai, Seiji, Tokyo, JAPAN
       Marrocco, Matthew L. III, Fontana, CA, UNITED STATES
       Motamedi, Farshad J., Claremont, CA, UNITED STATES
       Wang, Li-Sheng, Arcadia, CA, UNITED STATES
       Liang, Yongchao, Irvine, CA, UNITED STATES
PA
       HITACHI CHEMICAL CO. LTD., Tokyo, JAPAN (non-U.S. corporation)
      MAXDEM INCORPORATED, San Dimas, CA, UNITED STATES (U.S. corporation)
ΡI
      US 20060083945
                         A1 20060420
ΑI
      US 2004-966370
                          A1 20041015 (10)
DT
      Utility
FS
      APPLICATION
LN.CNT 4212
TNCT.
       INCLM: 428/690.000
       INCLS: 428/917.000; 313/504.000; 313/506.000; 257/040.000; 257/431.000;
              257/E51.028; 548/257.000; 528/423.000; 528/377.000; 528/380.000;
              526/259.000; 526/280.000; 526/284.000
NCL
      NCLM:
              428/690.000
      NCLS:
             257/040.000; 257/431.000; 257/E51.028; 313/504.000; 313/506.000;
              428/917.000; 526/259.000; 526/280.000; 526/284.000; 528/377.000;
              528/380.000; 528/423.000; 548/257.000
IC
       IPCI
              H01L0051-54 [I,A]; H01L0051-50 [I,C*]; C09K0011-06 [I,A];
              H05B0033-14 [I,A]; H01L0051-46 [I,A]; H01L0051-42 [I,C*];
             C08G0073-00 [I,A]; C08F0026-06 [I,A]; C08F0026-00 [I,C*];
             C07D0249-18 [I,A]; C07D0249-00 [I,C*]
       IPCR
             H01L0051-50 [I,C]; H01L0051-54 [I,A]; C07D0249-00 [I,C];
             C07D0249-18 [I,A]; C08F0026-00 [I,C]; C08F0026-06 [I,A];
             C08G0073-00 [I,C]; C08G0073-00 [I,A]; C09K0011-06 [I,C];
             C09K0011-06 [I,A]; H01L0051-42 [I,C]; H01L0051-46 [I,A];
              H05B0033-14 [I,C]; H05B0033-14 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
1.5
    ANSWER 22 OF 34 USPATFULL on STN
AN
       2006:28730 USPATFULL
ΤI
       Novel polymers for use in optical devices
IN
       Craig, Michael Robert, 250 East 39th Street Apt. 14K, New York, NY,
       UNITED STATES 10016
       Rogers, Jonathan, White Plains, NY, UNITED STATES
       Schafer, Thomas, Basel, SWITZERLAND
ΡI
      US 20060025564
                          A1 20060202
AΙ
      US 2003-531779
                          A1 20031021 (10)
      WO 2003-EP11634
                               20031021
                               20050419 PCT 371 date
      GB 2002-25244
                          20021030
PRAT
       EP 2003-101113
                          20030423
DT
      Utility
FS
      APPLICATION
LN.CNT 2055
INCL
       INCLM: 528/422.000
NCL
      NCLM: 528/422.000
NCLS: 257/E51.049
      IPCI
             C08G0073-00 [I.A]
       IPCR
             C08G0073-00 [I,A]; C08G0061-00 [I,C*]; C08G0061-12 [I,A];
             C08G0073-00 [I,C]; C08G0073-06 [I,A]; C09K0011-06 [I,C*];
             C09K0011-06 [I,A]; H01L0051-05 [I,C*]; H01L0051-30 [I,A];
             H01L0051-50 [N,C*]; H01L0051-50 [N,A]; H05B0033-14 [I,C*];
             H05B0033-14 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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ANSWER 23 OF 34 USPATFULL on STN
       2005:105701 USPATFULL
AN
TΙ
       Mono-, oligo-and polythieno[2,3-b]thiophenes
       Heeney, Martin, Southampton, UNITED KINGDOM
       McCulloch, Iain, Southampton, UNITED KINGDOM
       Bailey, Clare, Southampton, UNITED KINGDOM
       US 20050090640
                          A1 20050428
       US 7183418
                          B2 20070227
AΙ
       US 2004-928724
                          A1 20040830 (10)
PRAI
       EP 2003-19501
                          20030828
DT
       Utility
FS
       APPLICATION
LN.CNT 1665
TNCI.
       INCLM: 528/377 000
       INCLS: 205/414.000; 428/690.000
NCL
       NCLM: 549/050.000; 528/377.000
       NCLS: 252/500.000; 359/326.000; 385/143.000; 528/377.000; 205/414.000;
              428/690.000
TC
       ICM
              C08G075-00
       ICS
              B32B009-00
       IPCI
              C08G0075-00 [ICM, 71: B32B0009-00 [ICS, 71
       IPCI-2 C07D0495-02 [I,A]; C07D0495-00 [I,C*]; H01B0001-00 [I,A];
              C08G0075-00 [I,A]; G02B0006-00 [I,A]; G02F0001-35 [I,A]
              C07D0495-00 [I,C]; C07D0495-02 [I,A]; H01L0051-50 [I,C*];
       IPCR
              H01L0051-50 [I,A]; C07D0495-04 [I,A]; C08G0061-00 [I,C*];
              C08G0061-12 [I,A]; C08G0075-00 [I,C]; C08G0075-00 [I,A];
              G02B0006-00 [I,C]; G02B0006-00 [I,A]; G02F0001-35 [I,C];
              G02F0001-35 [I,A]; H01B0001-00 [I,C]; H01B0001-00 [I,A];
              H01L0029-66 [I,C*]; H01L0029-786 [I,A]; H01L0051-05 [I,C*];
              H01L0051-05 [I,A]; H01L0051-30 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 24 OF 34 USPATFULL on STN
AN
       2005:96618 USPATFULL
ΤI
       Poly(benzodithiophenes)
TN
       Heeney, Martin, Southampton, UNITED KINGDOM
       Bailey, Clare, Midanbury, UNITED KINGDOM
       Tierney, Steven, Southampton, UNITED KINGDOM
       Zhang, Weimin, Southampton, UNITED KINGDOM
       McCulloch, Iain, Chandlers Ford, UNITED KINGDOM
PΙ
       US 20050082525
                         A1 20050421
ΆT
      US 2004-963720
                          A1 20041014 (10)
                          20031015
PRAT
      EP 2003-23339
       Utility
DT
FS
       APPLICATION
LN.CNT 1198
       INCLM: 257/040.000
INCL
       INCLS: 549/043.000; 526/256.000; 526/280.000; 528/377.000; 428/917.000;
              428/001.100; 313/504.000; 252/301.350; 252/500.000
NCL
       NCLM:
             257/040.000
             252/301.350: 252/500.000: 313/504.000: 428/001.100: 428/917.000:
       NCLS:
              526/256.000; 526/280.000; 528/377.000; 549/043.000
TC:
       TCM
              H01B001-12
       TCS
              C07D495-04; C08G075-00; C09K011-06; C09K019-04
              H01B0001-12 [ICM,7]; C07D0495-04 [ICS,7]; C07D0495-00 [ICS,7,C*];
              C08G0075-00 [ICS,7]; C09K0011-06 [ICS,7]; C09K0019-04 [ICS,7]
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AΝ

ΤI

IN

PΙ

ΑI

FS

NCL.

 $L_5$ 

AN

TΙ

TN

PA PΙ

AΙ

DT

FS

NCL.

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TPCR
             C07D0333-00 [I,C*]; C07D0333-76 [I,A]; C07D0495-00 [I,C*];
             C07D0495-04 [I,A]; C08G0061-00 [I,C*]; C08G0061-12 [I,A];
             C09K0019-34 [I,C*]; C09K0019-34 [I,A]; C09K0019-38 [I,C*];
              C09K0019-38 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 25 OF 34 USPATFULL on STN
       2004:156267 USPATFULL
      Mono-, oligo- and poly-bis(thienyl) arylenes and their use as charge
       transport materials
       Heeney, Martin, Southampton, UNITED KINGDOM
       Giles, Mark, Southampton, UNITED KINGDOM
       Tierney, Steven, Southampton, UNITED KINGDOM
      McCulloch, Iain, Southampton, UNITED KINGDOM
       Bailey, Clare, Hamshire, UNITED KINGDOM
                        A1 20040624
      US 20040119049
      US 2003-725514
                          A1 20031203 (10)
PRAI
      EP 2002-27102
                          20021204
      Utility
      APPLICATION
LN.CNT 1100
INCL
       INCLM: 252/299.300
       INCLS: 252/299.610: 252/299.620
       NCLM: 252/299.300
      NCLS: 252/299.610; 252/299.620; 257/E51.049
       ICM
             C09K019-58
       ICS
             C09K019-32
       IPCI
             C09K0019-58 [ICM, 7]; C09K0019-32 [ICS, 7]
       IPCR
             H01L0051-50 [I,C*]; H01L0051-50 [I,A]; C07D0333-00 [I,C*];
             C07D0333-18 [I,A]; C07D0333-28 [I,A]; C08G0061-00 [I,C*];
             C08G0061-12 [I,A]; C09K0019-34 [I,C*]; C09K0019-34 [I,A];
             C09K0019-38 [I,C*]; C09K0019-38 [I,A]; C09K0019-58 [I,C*];
             C09K0019-58 [I,A]; G03G0005-06 [I,C*]; G03G0005-06 [I,A];
             G03G0005-07 [I,C*]; G03G0005-07 [I,A]; G11B0007-24 [I,C*];
              G11B0007-244 [I,A]; G11B0007-245 [I,A]; H01B0001-12 [I,C*];
              H01B0001-12 [I,A]; H01L0029-66 [I,C*]; H01L0029-786 [I,A];
              H01L0051-05 [I,C*]; H01L0051-05 [I,A]; H01L0051-30 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 26 OF 34 USPATFULL on STN
       2004:82480 USPATFULL
       Electroactive polymers
       Roberts, Ralph R., Cottage Grove, MN, UNITED STATES
       Bentsen, James G., North St. Paul, MN, UNITED STATES
       Li, Yingbo, Woodbury, MN, UNITED STATES
       3M Innovative Properties Company (U.S. corporation)
      US 20040062930
                          A1 20040401
       US 7094902
                          B2 20060822
                         A1 20020925 (10)
      US 2002-254218
      Utility
      APPLICATION
LN.CNT 4144
       INCLM: 428/411.100
       INCLS: 430/200.000; 430/201.000; 430/319.000; 430/271.100; 428/917.000;
              528/004.000
      NCLM: 548/128.000; 428/411.100
       NCLS: 257/E51.049; 257/E51.051; 345/030.000; 345/036.000; 345/045.000;
              548/131.000; 548/262.200; 548/269.400; 428/917.000; 430/200.000;
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430/201.000; 430/271.100; 430/319.000; 528/004.000
TC
       ICM
             G03F007-34
       ICS
             G03F007-11
             G03F0007-34 [ICM, 7]; G03F0007-11 [ICS, 7]
       IPCI
       IPCI-2 C07D0249-08 [I,A]; C07D0249-00 [I,C*]; C07D0271-06 [I,A];
              C07D0271-00 [I,C*]; C07D0285-08 [I,A]; C07D0285-00 [I,C*];
             G09G0003-30 [I.A]
       IPCR
             B41M0005-26 [I,C*]; B41M0005-382 [N,A]; B41M0005-395 [I,A];
             C08G0061-00 [I,C*]; C08G0061-02 [I,A]; C08G0061-10 [I,A];
              H01L0051-00 [I,C*]; H01L0051-00 [I,A]; H01L0051-05 [I,C*];
              H01L0051-30 [I,A]; H01L0051-40 [N,A]; C07D0249-00 [I,C];
             C07D0249-08 [I,A]; C07D0271-00 [I,C]; C07D0271-06 [I,A];
             C07D0285-00 [I,C]; C07D0285-08 [I,A]; G09G0003-30 [I,C];
             G09G0003-30 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 27 OF 34 USPATFULL on STN
       2003:318462 USPATFULL
ΑN
TI
       Electroluminescent materials and methods of manufacture and use
       Li, Yingbo, Woodbury, MN, UNITED STATES
ΤN
       Baetzold, John P., North St. Paul, MN, UNITED STATES
       Spawn, Terence D., West Lakeland Township, MN, UNITED STATES
       Roberts, Ralph R., Cottage Grove, MN, UNITED STATES
       Bentsen, James G., North St. Paul, MN, UNITED STATES
       Staral, John S., Woodbury, MN, UNITED STATES
PA
       3M Innovative Properties Company (U.S. corporation)
ΡI
      US 20030224205
                          A1 20031204
      US 7241512
                          B2 20070710
      US 2002-285114
                          A1 20021031 (10)
AΙ
      US 2002-374044P
PRAI
                          20020419 (60)
      Utility
DT
FS
      APPLICATION
LN.CNT 2188
INCL
       INCLM: 428/690.000
       INCLS: 428/913.000; 428/917.000; 313/504.000; 257/040.000; 257/103.000;
              430/319.000; 252/301.350
NCI.
      NCLM: 428/690.000
      NCLS: 252/301.350; 257/040.000; 257/103.000; 313/504.000; 428/917.000;
             428/913,000; 430/319,000
IC
       ICM
             C09K011-06
       ICS
             H05B033-14; B32B009-00
       TPCT
             C09K0011-06 [ICM, 7]; H05B0033-14 [ICS, 7]; B32B0009-00 [ICS, 7]
       IPCI-2 H01J0001-62 [I,A]; H01J0001-00 [I,C*]; C09K0011-06 [I,A]
       IPCR
             H05B0033-10 [I,C*]; H05B0033-10 [I,A]; C08G0061-00 [I,C*];
             C08G0061-02 [I,A]; C08G0061-10 [I,A]; C09K0011-06 [I,C*];
              C09K0011-06 [I,A]; H01L0051-00 [N,C*]; H01L0051-00 [N,A];
              H01L0051-05 [I,C*]; H01L0051-30 [I,A]; H01L0051-50 [I,C*];
             H01L0051-50 [I,A]; H01J0001-00 [I,C]; H01J0001-62 [I,A];
             C09K0011-06 [I,C]; C09K0011-06 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 28 OF 34 USPATFULL on STN
AN
       2003:298484 USPATFULL
       Reactive mesogenic benzodithiophenes
TN
       Farrand, Louise, Blandford Forum, UNITED KINGDOM
       Heeney, Martin, Southampton, UNITED KINGDOM
       Tierney, Steven, Southampton, UNITED KINGDOM
```

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NCL.

TC.

```
Giles, Mark, Southampton, UNITED KINGDOM
       Thompson, Marcus, Hamshire, UNITED KINGDOM
       Shkunov, Maxim, Southampton, UNITED KINGDOM
       Sparrowe, David, Bournemouth Dorset, UNITED KINGDOM
       McCulloch, Iain, Hants, UNITED KINGDOM
      MERCK PAPTENTGESELLSCHAFT MIT BESCHRANKTER HAFTUNG, Darmstadt, GERMANY,
       FEDERAL REPUBLIC OF (non-U.S. corporation)
      US 20030209692
                         A1 20031113
      US 6913710
                          B2 20050705
      US 2003-421873
                          A1 20030424 (10)
PRAI
       EP 2002-9083
                          20020424
      Utility
      APPLICATION
LN.CNT 1189
TNCT.
       INCLM: 252/299.610
       INCLS: 252/299.620; 252/299.300; 356/364.000; 345/087.000
       NCLM: 252/299.610
      NCLS: 252/299.620; 549/043.000; 549/045.000; 549/059.000; 549/083.000;
             252/299.300; 345/087.000; 356/364.000
       ICM
             C09K019-38
       ICS
             C09K019-58; C09K019-34; G09G003-36; C09K019-32; G01J004-00
       IPCI
             C09K0019-38 [ICM, 7]; C09K0019-58 [ICS, 7]; C09K0019-34 [ICS, 7];
             G09G0003-36 [ICS,7]; C09K0019-32 [ICS,7]; G01J0004-00 [ICS,7]
       IPCI-2 C09K0019-52 [ICM, 7]
             C07D0495-00 [I,C*]; C07D0495-04 [I,A]; C07D0519-00 [I,C*];
       TPCR
             C07D0519-00 [I,A]; C08F0020-00 [I,C*]; C08F0020-38 [I,A];
             C09K0019-34 [I,C*]; C09K0019-34 [I,A]; C09K0019-38 [I,C*];
             C09K0019-38 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 29 OF 34 USPATFULL on STN
       2003:242255 USPATFULL
       Reactive mesogenic azulenes
       Farrand, Louise Diane, Spetisbury, GERMANY, FEDERAL REPUBLIC OF
       Findlater, Michael, Glasgow, UNITED KINGDOM
       Giles, Mark, Southampton, UNITED KINGDOM
       Heeney, Martin, Southampton, UNITED KINGDOM
       Tierney, Steven, Southampton, UNITED KINGDOM
       Thompson, Marcus, Fordingbridge, UNITED KINGDOM
       Shkunov, Maxim, Southampton, UNITED KINGDOM
       Sparrowe, David, Southbourne, UNITED KINGDOM
       McCulloch, Iain, Kings Somborne, UNITED KINGDOM
      Merck Patent Gesellschaft mit beschrankter Haftung, Darmstadt, GERMANY,
      FEDERAL REPUBLIC OF (non-U.S. corporation)
      US 20030168657
                         A1 20030911
      US 7115755
                          B2 20061003
      US 2002-314162
                         A1 20021209 (10)
       EP 2001-129217
                         20011210
      Utility
      APPLICATION
LN.CNT 1035
       INCLM: 257/040.000
TNCL.
       INCLS: 257/079.000
       NCLM: 549/029.000; 257/040.000
       NCLS: 257/079.000; 549/510.000; 549/512.000; 558/300.000
       TCM
            H01L027-15
       TCS
             H01L035-24
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NCL

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ΑI DT

NCL.

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H01L0027-15 [ICM, 7]; H01L0035-24 [ICS, 7]; H01L0035-12 [ICS, 7, C*]
       IPCI-2 C07D0333-02 [I,A]; C07D0333-00 [I,C*]
       IPCR
             C07D0333-00 [I,C]; C07D0333-02 [I,A]; C07D0333-06 [I,A];
             C07C0069-00 [I,C*]; C07C0069-007 [I,A]; C07C0069-54 [I,A];
             C09K0019-32 [I,C*]; C09K0019-32 [I,A]; C09K0019-34 [I,C*];
              C09K0019-34 [I,A]; H01L0029-66 [I,C*]; H01L0029-786 [I,A];
              H01L0051-05 [I,C*]; H01L0051-05 [I,A]; H01L0051-30 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 30 OF 34 USPAT2 on STN
       2005:105701 USPAT2
       Mono-, oligo- and polythieno[2,3-b]thiophenes
       Heeney, Martin, Southampton, UNITED KINGDOM
       McCulloch, Iain, Southampton, UNITED KINGDOM
       Bailey, Clare, Southampton, UNITED KINGDOM
       Merck Patent Gesellschaft, Darmstadt, GERMANY, FEDERAL REPUBLIC OF
       (non-U.S. corporation)
       US 7183418
                          B2 20070227
      US 2004-928724
                               20040830 (10)
PRAI
       EP 2003-19501
                           20030828
      Utility
       GRANTED
LN.CNT 1685
       INCLM: 549/050.000
INCL
       INCLS: 252/500.000; 528/377.000; 385/143.000; 359/326.000
       NCLM: 549/050.000; 528/377.000
      NCLS: 252/500.000; 359/326.000; 385/143.000; 528/377.000; 205/414.000;
              428/690.000
       IPCI
             C08G0075-00 [ICM, 7]; B32B0009-00 [ICS, 7]
       IPCI-2 C07D0495-02 [I,A]; C07D0495-00 [I,C*]; H01B0001-00 [I,A];
             C08G0075-00 [I,A]; G02B0006-00 [I,A]; G02F0001-35 [I,A]
             C07D0495-00 [I,C]; C07D0495-02 [I,A]; H01L0051-50 [I,C*];
       IPCR
             H01L0051-50 [I,A]; C07D0495-04 [I,A]; C08G0061-00 [I,C*];
             C08G0061-12 [I,A]; C08G0075-00 [I,C]; C08G0075-00 [I,A];
             G02B0006-00 [I,C]; G02B0006-00 [I,A]; G02F0001-35 [I,C];
             G02F0001-35 [I,A]; H01B0001-00 [I,C]; H01B0001-00 [I,A];
              H01L0029-66 [I,C*]; H01L0029-786 [I,A]; H01L0051-05 [I,C*];
              H01L0051-05 [I,A]; H01L0051-30 [I,A]
       549/50; 252/500; 528/377; 385/143; 359/326
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 31 OF 34 USPAT2 on STN
       2004:82480 USPAT2
       Electroactive polymers
       Roberts, Ralph R., Cottage Grove, MN, UNITED STATES
       Bentsen, James G., North St. Paul, MN, UNITED STATES
       Li, Yingbo, Woodbury, MN, UNITED STATES
       3M Innovative Properties Company, St. Paul, MN, UNITED STATES (U.S.
       corporation)
      US 7094902
                           B2 20060822
      US 2002-254218
                              20020925 (10)
       Utility
       GRANTED
LN.CNT 3906
INCL
       INCLM: 548/128.000
       INCLS: 548/131.000; 548/262.200; 548/269.400; 345/030.000; 345/036.000;
              345/045.000
      NCLM: 548/128.000; 428/411.100
       NCLS: 257/E51.049; 257/E51.051; 345/030.000; 345/036.000; 345/045.000;
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548/131.000; 548/262.200; 548/269.400; 428/917.000; 430/200.000;
              430/201,000; 430/271,100; 430/319,000; 528/004,000
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             G03F0007-34 [ICM, 7]; G03F0007-11 [ICS, 7]
       IPCI-2 C07D0249-08 [I,A]; C07D0249-00 [I,C*]; C07D0271-06 [I,A];
              C07D0271-00 [I,C*]; C07D0285-08 [I,A]; C07D0285-00 [I,C*];
              G09G0003-30 [I,A]
       IPCR
             B41M0005-26 [I,C*]; B41M0005-382 [N,A]; B41M0005-395 [I,A];
             C08G0061-00 [I,C*]; C08G0061-02 [I,A]; C08G0061-10 [I,A];
             H01L0051-00 [I,C*]; H01L0051-00 [I,A]; H01L0051-05 [I,C*];
              H01L0051-30 [I,A]; H01L0051-40 [N,A]; C07D0249-00 [I,C];
             C07D0249-08 [I,A]; C07D0271-00 [I,C]; C07D0271-06 [I,A];
              C07D0285-00 [I,C]; C07D0285-08 [I,A]; G09G0003-30 [I,C];
              G09G0003-30 [I,A]
EXE
       548/131; 548/128; 548/262.2; 548/269.4; 514/364; 345/30; 345/36; 345/45;
       345/76
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 32 OF 34 USPAT2 on STN
       2003:318462 USPAT2
AΝ
TI
       Electroluminescent materials and methods of manufacture and use
IN
       Li, Yingbo, Woodbury, MN, UNITED STATES
       Baetzold, John P., North St. Paul, MN, UNITED STATES
       Spawn, Terence D., West Lakeland Township, MN, UNITED STATES
       Roberts, Ralph R., Cottage Grove, MN, UNITED STATES
       Bentsen, James G., North St. Paul, MN, UNITED STATES
       Staral, John S., Woodbury, MN, UNITED STATES
PA
       3M Innovative Properties Company, St. Paul, MN, UNITED STATES (U.S.
       corporation)
ΡI
      US 7241512
                          B2 20070710
      US 2002-285114
                               20021031 (10)
ΑI
PRAI
      US 2002-374044P
                          20020419 (60)
      Utility
DT
FS
      GRANTED
LN.CNT 2261
INCL
       INCLM: 428/690.000
       INCLS: 428/917.000; 313/504.000; 257/040.000; 257/103.000; 252/301.350
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       NCLS: 252/301.350; 257/040.000; 257/103.000; 313/504.000; 428/917.000;
              428/913.000; 430/319.000
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             C09K0011-06 [ICM, 7]; H05B0033-14 [ICS, 7]; B32B0009-00 [ICS, 7]
       IPCI-2 H01J0001-62 [I,A]; H01J0001-00 [I,C*]; C09K0011-06 [I,A]
       IPCR
             H05B0033-10 [I,C*]; H05B0033-10 [I,A]; C08G0061-00 [I,C*];
             C08G0061-02 [I,A]; C08G0061-10 [I,A]; C09K0011-06 [I,C*];
             C09K0011-06 [I,A]; H01L0051-00 [N,C*]; H01L0051-00 [N,A];
             H01L0051-05 [I,C*]; H01L0051-30 [I,A]; H01L0051-50 [I,C*];
             H01L0051-50 [I.A]; H01J0001-00 [I.C]; H01J0001-62 [I.A];
             C09K0011-06 [I,C]; C09K0011-06 [I,A]
EXF
       428/690; 428/917; 428/411.1; 313/506; 313/504; 257/40; 257/E51.029;
       257/103; 528/4; 430/200; 252/301.16; 252/500; 252/301.35; 525/40
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 33 OF 34 USPAT2 on STN
L5
       2003:298484 USPAT2
AN
       Reactive mesogenic benzodithiophenes
TN
       Farrand, Louise, Blandford Forum, UNITED KINGDOM
       Heeney, Martin, Southampton, UNITED KINGDOM
       Tierney, Steven, Southampton, UNITED KINGDOM
       Giles, Mark, Southampton, UNITED KINGDOM
       Thompson, Marcus, Hamshire, UNITED KINGDOM
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Shkunov, Maxim, Southampton, UNITED KINGDOM
       Sparrowe, David, Bournemouth Dorset, UNITED KINGDOM
       McCulloch, Iain, Hants, UNITED KINGDOM
PA
      Merck Patent GmbH, Darmstadt, GERMANY, FEDERAL REPUBLIC OF (non-U.S.
       corporation)
PΙ
      US 6913710
                           B2 20050705
      US 2003-421873
AΙ
                               20030424 (10)
PRAI
      EP 2002-9083
                           20020424
DT
      Utility
FS
       GRANTED
LN.CNT 1370
TNCL.
       INCLM: 252/299.610
       INCLS: 252/299.620; 549/043.000; 549/045.000; 549/059.000; 549/083.000
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      NCLM: 252/299.610
      NCLS: 252/299.620; 549/043.000; 549/045.000; 549/059.000; 549/083.000;
              252/299.300; 345/087.000; 356/364.000
IC
       ICM
              C09K019-52
       IPCI
              C09K0019-38 [ICM,7]; C09K0019-58 [ICS,7]; C09K0019-34 [ICS,7];
              G09G0003-36 [ICS,7]; C09K0019-32 [ICS,7]; G01J0004-00 [ICS,7]
       IPCI-2 C09K0019-52 [ICM, 7]
       IPCR
              C07D0495-00 [I,C*]; C07D0495-04 [I,A]; C07D0519-00 [I,C*];
              C07D0519-00 [I,A]; C08F0020-00 [I,C*]; C08F0020-38 [I,A];
              C09K0019-34 [I,C*]; C09K0019-34 [I,A]; C09K0019-38 [I,C*];
              C09K0019-38 [I,A]
       549/29-31; 549/41; 549/59; 549/43; 549/83; 549/45; 549/47; 549/48;
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       428/1.1; 252/299.01; 252/299.2; 252/299.3; 252/299.62; 252/299.61
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 34 OF 34 USPAT2 on STN
L5
AN
       2003:242255 USPAT2
ΤI
       Reactive mesogenic azulenes
       Farrand, Louise Diane, Spetisbury, GERMANY, FEDERAL REPUBLIC OF
IN
       Findlater, Michael, Glasgow, UNITED KINGDOM
       Giles, Mark, Southampton, UNITED KINGDOM
       Heeney, Martin, Southampton, UNITED KINGDOM
       Tierney, Steven, Southampton, UNITED KINGDOM
       Thompson, Marcus, Fordingbridge, UNITED KINGDOM
       Shkunov, Maxim, Southampton, UNITED KINGDOM
       Sparrowe, David, Southbourne, UNITED KINGDOM
      McCulloch, Iain, Kings Somborne, UNITED KINGDOM
PA
      Merck Patent GmbH, Darmstadt, GERMANY, FEDERAL REPUBLIC OF (non-U.S.
      corporation)
PΤ
      US 7115755
                           B2 20061003
ΑI
      US 2002-314162
                               20021209 (10)
      EP 2001-129217
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PRAI
DT
      Utility
FS
       GRANTED
LN.CNT 981
INCL
       INCLM: 549/029.000
       INCLS: 549/510.000; 549/512.000; 558/300.000; 257/079.000
      NCLM: 549/029.000; 257/040.000
NCLS: 257/079.000; 549/510.000; 549/512.000; 558/300.000
NCL
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             H01L0027-15 [ICM, 7]; H01L0035-24 [ICS, 7]; H01L0035-12 [ICS, 7, C*]
       IPCI-2 C07D0333-02 [I,A]; C07D0333-00 [I,C*]
       IPCR
              C07D0333-00 [I,C]; C07D0333-02 [I,A]; C07D0333-06 [I,A];
              C07C0069-00 [I,C*]; C07C0069-007 [I,A]; C07C0069-54 [I,A];
              C09K0019-32 [I,C*]; C09K0019-32 [I,A]; C09K0019-34 [I,C*];
              C09K0019-34 [I,A]; H01L0029-66 [I,C*]; H01L0029-786 [I,A];
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ductruong

H01L0051-05 [I,C\*]; H01L0051-05 [I,A]; H01L0051-30 [I,A] CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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